

LISTING OF CLAIMS

1. (original) An optical inspection machine for fasteners, comprising:
  - (a) an inspection station;
  - (b) a main dial rotatable through said inspection station and carrying thereon a plurality of fasteners;
  - (c) a reflective surface surrounding each of said plurality of fasteners to permit inspection light to reflect from said reflective surface and permit viewing of an entire outer circumference of a head of said each of said plurality of fasteners to detect head cracks and bursts; and
  - (d) a lower surface of said each of said plurality of fasteners being raised above said reflective surface.
2. (original) An optical inspection machine for fasteners, as defined in Claim 1, further comprising: masks affixed to upper surfaces of said main dial and to a stationary in-line guide at said inspection station and surrounding said reflective surface.
3. (original) An optical inspection machine for fasteners, as defined in Claim 2, wherein: said masks are spaced apart from said outer circumference by a minimum of about 0.100-inch.
4. (original) An optical inspection machine for fasteners, as defined in Claim 1, wherein: each of said plurality of fasteners is raised above said reflective surface by about 0.090-inch.

5. (original) An optical inspection machine for fasteners, as defined in Claim 1, wherein each of said plurality of fasteners is raised above said reflective surface by a land having a width dimension at least about 20 percent less than a corresponding width dimension of a head of said fastener.

6. (original) An optical inspection machine for fasteners, as defined in Claim 2, further comprising: a reflective guide plate affixed to an undersurface of said in-line guide to reflect inspection light past a portion of a head of each of said plurality of fasteners.

7. (original) An optical inspection machine for fasteners, as defined in Claim 6, wherein: said reflective guide plate underlies said main dial by a minimum of about 0.060-inch.

8. (original) A method of optically inspecting fasteners, comprising:

- (a) providing an inspection station;
- (b) providing a main dial rotatable through said inspection station and carrying thereon a plurality of fasteners;
- (c) providing a reflective surface surrounding each of said plurality of fasteners to permit inspection light to reflect from said reflective surface and permit viewing of an entire outer circumference of a head of each of said plurality of fasteners to detect head cracks and bursts; and
- (d) raising a lower surface of said each of said plurality of fasteners above said reflective surface.

9. (original) A method of optically inspecting fasteners, as defined in Claim 8, further comprising: affixing masks to upper surfaces of said main dial and to a stationary in-line guide at said inspection station and surrounding said reflective surface.

10. (original) A method of optically inspecting fasteners, as defined in Claim 9, further comprising: spacing said masks apart from said outer circumference by a minimum of about 0.100-inch.

11. (original) A method of optically inspecting fasteners, as defined in Claim 8, further comprising: raising each of said plurality of fasteners above said reflective surface by about 0.090-inch.

12. (original) A method of optically inspecting fasteners, as defined in Claim 8, further comprising: raising each said plurality of fasteners above said reflective surface with a land having a width dimension at least about 20 percent less than a corresponding width dimension of a head of said fastener.

13. (original) A method of optically inspecting fasteners, as defined in Claim 9, further comprising: affixing a reflective guide plate to an undersurface of said in-line guide to reflect inspection light past a portion of a head of each of said plurality of fasteners.

14. (original) A method of optically inspecting fasteners, as defined in Claim 13, further comprising: placing said reflective guide plate under said main dial by a minimum of about 0.060-inch.